


RIBA in association with IMechE


**Delivering World Class Major Sports Facilities:
The Games and Beyond
Transport Infrastructure and Crowd Management**

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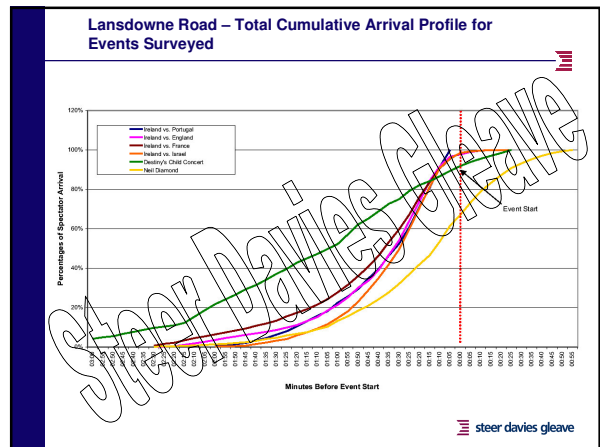
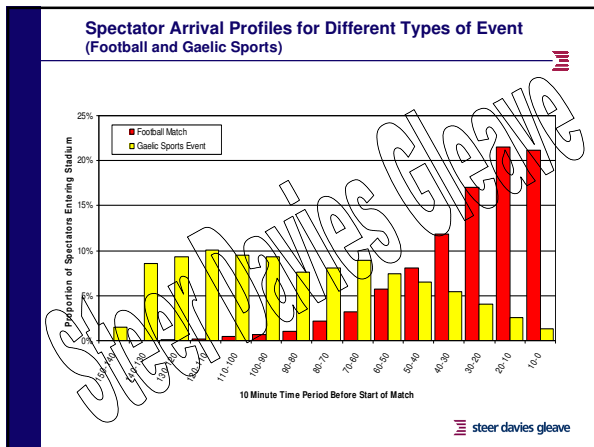
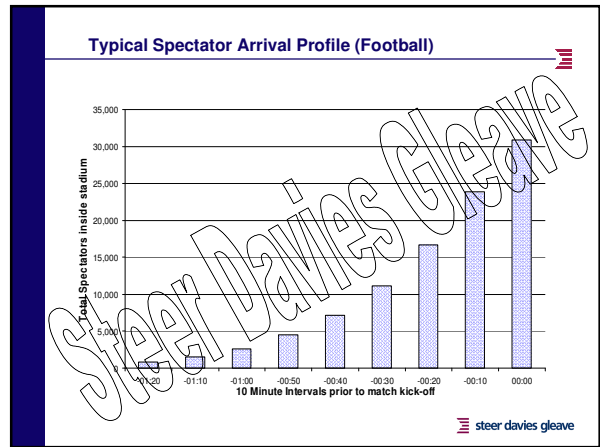


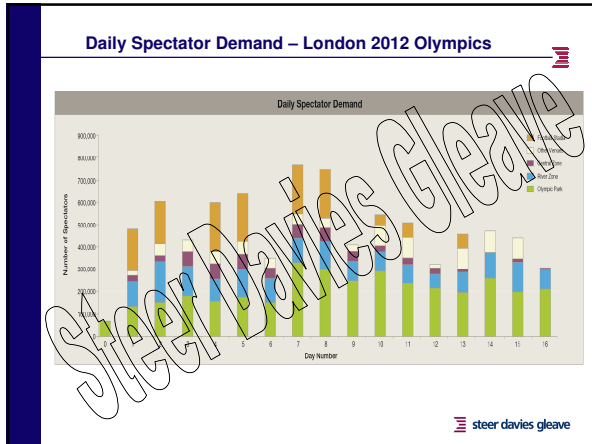
Introduction

- Travel Patterns
- Transport Capacity
- Crowd Movement
- Transport Infrastructure for Stadia in England & Ireland
- London 2012
- Conclusions



TRAVEL PATTERNS

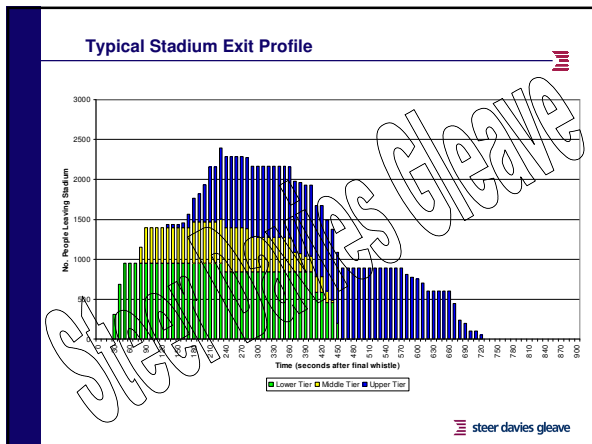


- ### Changes to Local Residents' Travel Behaviour during the Olympics, Sydney
- Press, radio and television advertisements in the 14 months leading up to the Sydney Games encouraged commuters to change their Games time travel patterns
 - Campaign to encourage businesses to alter their transport patterns around the time of the Olympics
 - Deliveries in the 'Central Business District' were restricted to 1am-7am or 7am-10am depending on the type of vehicle.
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- ### Changes to Local Residents' Travel Behaviour during the Olympics, Sydney (continued)
- Overall, the measures resulted in:
 - 25% - 35% peak hour reductions to bus and rail travel
 - 15% - 20% reduction in 'daily traffic base loads' on key road routes (about twice the reduction in usual school holiday period) - and up to 40% reduction on some corridors.
 - Through discussion with Transport Managers of the Sydney Olympics it is also understood that those that wanted to be away from Sydney during the period of the Games were encouraged to rent their homes to wider media workers outside the Olympic Family Group
 - It is estimated that about 10% of the Sydney population left the city for the Games period
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TRANSPORT CAPACITY

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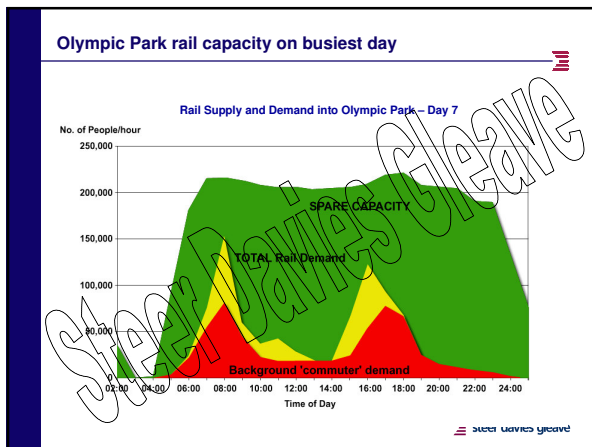
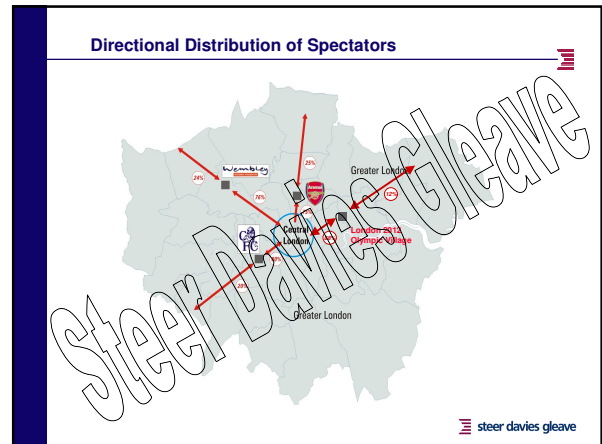
Post-Event Clearance Times onto Public Transport Network

STADIUM	SEATING CAPACITY	CLEARANCE TIME (MIN. AFTER EVENT FINISH)	
		(TARGET)	(EXPECTED)
WEMBLEY	90,000	90 min	60 min
ARSENAL	60,000	60 min	50 min

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Modal Split

STADIUM	COUNTRY	CAR (%)	PUBLIC TRANSPORT and SLOW MODES (%)
Arsenal (Highbury 2001)	England	30%	70%
Arsenal (Emirates 2006)	England	12%	88%
Wembley (2001)	England	8%	92%
Wembley National Stadium	England	4%	96%
Croke Park	Ireland	56%	44%
Lansdowne Road (2005)	Ireland	61%	39%
Lansdowne Road (Proposed)	Ireland	61%	39%
London 2012 Olympics (Proposed)	England	0%	100%



CROWD MOVEMENT

- ### Crowd Movement
- Emergency evacuation requirements
 - Access to transport network
 - Intervention to control pedestrian routes

